

**Notice of Allowability**

Application No.

09/784,551

Examiner

MANSOUR M SAID

Applicant(s)

ERICSON ET AL.

Art Unit

2673

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/12/05.
2. ☒ The allowed claim(s) is/are 16, 24-27, 31 & 44-71; and renumbered as 1-34.
3. ☒ The drawings filed on 31 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. The application having been allowed, formal drawings are required in response to this Office action.

2. Claims 16, 24-27, 31 and 44-71 are allowed.

3. The following is an examiner's statement of reasons for allowance:

None of the prior art of record either singularly or in combination teaches or fairly suggests an input unit arrangement for controlling an electronic device, comprising: a base; a position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern; a handheld image-recording device for recording images of said position-coding pattern; and a signal-processing device for deriving at least one position from the position coding pattern in the recorded image, said signal-processing device providing an instruction to the electronic device to perform a first function when said at least one absolute position belongs to the first set, and a second function when said at least one absolute position belongs to the second set.

Chan et al. (6,061,051) teach a pen input commands from a computer system to a controller for a touch pad to initialize the controller to the desired operating mode for the touch pad. A mouse pointing device or provide absolute coordinates of a pointed object such as human finger, a stylus, or a pen upon the touch pad. The pen command will set an auto cursor mode and boundaries for the edge zone and the dead zone upon the touch pad, and also a detect signal to create the stroke signal, the threshold of movement of the pointed object upon the touch pad to

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send mouse protocols to the computer, and the pen input mouse controller is to send the mouse protocol or the pen input computer interface protocol to the computer. A set pen input mode to change the operation of the pen input mouse controller to either the pen input mode, if selected to report the absolute relative motion digital codes to the computer system and to the mouse mode if selected to report to the relative motion digital codes to the computer system.

Flores et al. (6,310,988 B1) teach a pen contains a camera and has button for sending a signal to a computer, which directs the camera to capture an image. The camera captures the image in the opening, so that to capture image information from a surface. An image capture system that may be used to capture a used to capture a user selected portion of a graphical user interface, such as, glyph address carpet and decode the glyphs in the captured portion. The user makes a selection by placing camera pen on or near visual indicia on glyph address carpet, and pressing button. Pressing button causes camera pen to capture the portion of the address carpet under the tip camera pen and transmit the image to the computer, via frame capture, for analysis. The button or multiple buttons can be used for additional signaling, as in a double click, hold down.

However, the references do not teach the claimed limitation such as “a position-coding pattern provided on said base and coding a first and second sets of absolute positions on spatially separate areas of said base; said first and second sets of absolute positions being mutually exclusive and coded by spatially separate first and second subsets of said position-coding pattern; a handheld image-recording device for recording images of said position-coding pattern; and a signal-processing device for deriving at least one position from the position coding pattern in the recorded image, said signal-processing device providing an instruction to the electronic

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device to perform a first function when said at least one absolute position belongs to the first set, and a second function when said at least one absolute position belongs to the second set”.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Mansour M. Said** whose telephone number is **(571) 272-7679**.

The examiner can normally be reached on Monday through Thursday from 8:30 a.m. to 6:00 p.m. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Shalwala Bipin**, can be reached at **(571) 272-7681**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

**(703) 872-9314 (for Technology Center 2600 only)**


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist)

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6. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer service Office whose telephone number is (703) 306-0377.

04/15/05

**Mansour M. Said**



**BIPIN SHALWALA**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600